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65913 7590 07/13/2010

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1109 MCKAY DRIVE
SAN JOSE, CA 95131

EXAMINER

JIANG, YONG HANG

ART UNIT

PAPER NUMBER

2612

DATE MAILED: 07/13/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/525,810

09/02/2005

Franz Amtmann

AT02 0055 US

9914

TITLE OF INVENTION: METHOD OF INVENTORING TRANSPONDERS BY MEANS OF A COMMUNICATION STATION

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 10/13/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| |
|--------------------|
| (Depositor's name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
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10/525,810 09/02/2005 Franz Amtmann AT02 0055 US 9914

TITLE OF INVENTION: METHOD OF INVENTORING TRANSPONDERS BY MEANS OF A COMMUNICATION STATION

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|
|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|

nonprovisional NO \$1510 \$300 \$0 \$1810 10/13/2010

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|----------|----------|----------------|
|----------|----------|----------------|

JIANG, YONG HANG 2612 340-010300

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

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- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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| 10/525,810 | 09/02/2005 | Franz Amtmann | AT02 0055 US | 9914 |
| 65913 | 7590 | 07/13/2010 | EXAMINER | |
| NXP, B.V. NXP INTELLECTUAL PROPERTY & LICENSING M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131 | | | JIANG, YONG HANG | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2612 | |
| | | | DATE MAILED: 07/13/2010 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 467 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 467 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | | | |
|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/525,810 | AMTMANN, FRANZ | |
| | Examiner | Art Unit | |
| | YONG HANG JIANG | 2612 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/7/2010.
2. ☒ The allowed claim(s) is/are 1,5,6,8,12-14 and 17-25.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|---|

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark A. Wilson on 7/1/2010.

The application has been amended as follows:

Listing of Claims:

1. (currently amended) A method of inventorying at least one transponder by means of a communication station, wherein the communication station emits an unmodulated carrier signal in a communications range, and wherein the transponder on entering the communications range ~~independently~~ generates a presence-signaling signal and emits the presence-signaling signal in the communications range, and wherein the communication station on receiving a presence-signaling signal emits an inventorying command signal in the communications range, and wherein the transponder on receiving the inventorying command signal emits a response signal in the communications range permitting the inventorying of the transponders, and wherein the communication station, on correctly receiving a response signal undertakes inventorying of the transponders, wherein the transponder emits the presence-signaling signal with a

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first signal duration and the response signal with a second signal duration, and wherein

the first signal duration is shorter than the second signal duration, wherein the first

signal duration and the second signal duration have a ratio of 1:X, and in that the value

X lies in a range between $X=10$ and $X=100$, wherein the presence-signaling signal is not

assigned to the transponder.

2. (canceled)

3. (canceled)

4. (canceled)

5. (original) A method as claimed in claim 1, wherein the transponder emits a presence-signaling signal with a first transmission parameter and a response signal with a second transmission parameter.

6. (previously presented) A method as claimed in claim 5, wherein one of two different subcarrier frequencies of each subcarrier signal is used, one as first transmission parameter and one as second transmission parameter, wherein the two different subcarrier frequencies are 283 kilohertz and 424 kilohertz.

7. (canceled)

8. (currently amended) A transponder for communication with a communication station, wherein transponder transmission means are provided for emitting and receiving signals, and wherein carrier signal detection means are provided for detecting an unmodulated carrier signal generated and emitted by the communication station and received by the transponder transmission means, and wherein presence-signaling signal generating means that can be activated as a function of the detection of an unmodulated carrier signal are provided for ~~independently~~ generating a presence-signaling signal, and wherein inventorying command signal detection means are provided for detecting an inventorying command signal generated and emitted by the communication station and received by the transponder transmission means, and wherein response signal generating means that can be activated as a function of the detection of the inventorying command signal are provided for generating a response signal permitting the inventorying of the transponder, wherein the presence-signaling signal generating means generates the presence-signaling signal with a first signal duration and wherein the response signal generating means generates the response signal with a second signal duration, and wherein the first signal duration is shorter than the second signal duration, wherein the first signal duration and the second signal duration have a ratio of 1:X, the value X lying in a range between X=10 and X=100, wherein the presence-signaling signal is not assigned to the transponder.

9. (canceled)

10. (canceled)

11. (canceled)

12. (original) A transponder as claimed in claim 8, wherein the transponder is designed to generate a presence-signaling signal with a first transmission parameter and to generate a response signal with a second transmission parameter.

13. (original) A transponder as claimed in claim 12, wherein the first transmission parameter and the second transmission parameter are each formed by one of two different subcarrier frequencies of each subcarrier signal.

14. (currently amended) An integrated circuit for a transponder for communication with a communication station, wherein at least one connection is provided for emitting and receiving signals, and wherein carrier signal detection means are provided for detecting an unmodulated carrier signal generated and emitted by the communication station and received via at least one connection, and wherein presence-signaling signal generating means that can be activated as a function of the detection of an unmodulated carrier signal are provided for ~~independently~~ generating a presence-signaling signals, and wherein inventorying command signal detection means are provided for detecting an inventorying command signal generated and emitted by the communication station and

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received via at least one connection, and wherein response signal generating means that can be activated as a function of the detection of the inventorying command signal are provided for generating a response signal permitting the inventorying of the transponder, wherein the presence-signaling signal generating means generates the presence-signaling signal with a first signal duration and wherein the response signal generating means generates the response signal with a second signal duration, and

wherein the first signal duration is shorter than the second signal duration, wherein the first signal duration and the second signal duration have a ratio of 1:X, and in that the value X lies in a range between X=10 and X=100, wherein the presence-signaling signal is not assigned to the transponder.

15. (canceled)

16. (canceled)

17. (currently amended) An integrated circuit as claimed in claim ~~46~~ 14, wherein the value X lies in a range between X=20 and X=35.

18. (original) An integrated circuit as claimed in claim 14, wherein the integrated circuit is designed to generate a presence-signaling signal with a first transmission parameter and to generate a response signal with a second transmission parameter.

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19. (original) An integrated circuit as claimed in claim 18, wherein the first transmission parameter and the second transmission parameter are each formed by one of two different subcarrier frequencies of each subcarrier signal.

20. (previously presented) A method as claimed in claim 1, wherein the presence-signaling signal does not include an identification data ID of the transponder and wherein the response signal includes the identification data ID of the transponder.

21. (previously presented) A transponder as claimed in claim 8, wherein the presence-signaling signal does not include an identification data ID of the transponder.

22. (previously presented) An integrated circuit as claimed in claim 14, wherein the presence-signaling signal does not include an identification data ID of the transponder.

23. (previously presented) A method as claimed in claim 1, wherein the transponder on entering the communications range generates and emits a plurality of presence-signaling signals in the communications range at random intervals to ensure that the communication station reliably receives at least one of the plurality of presence-signaling signal generated and emitted by the transponder.

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24. (previously presented) A method as claimed in claim 23, wherein the transponder terminates generation and emission of the plurality of presence-signaling signals on receiving the inventorying command signal.

25. (previously presented) A method as claimed in claim 1, wherein the transponder on entering the communications range generates and emits a plurality of presence-signaling signals in the communications range repeatedly at recurrent intervals to ensure that the communication station reliably receives at least one of the plurality of presence-signaling signal generated and emitted by the transponder.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

None of the prior arts disclose or teach: A method of inventorying at least one transponder by means of a communication station, wherein the communication station emits an unmodulated carrier signal in a communications range, and wherein the transponder on entering the communications range generates a presence-signaling signal and emits the presence-signaling signal in the communications range, and wherein the communication station on receiving a presence-signaling signal emits an inventorying command signal in the communications range, and wherein the transponder on receiving the inventorying command signal emits a response signal in the communications range permitting the inventorying of the transponders, and wherein the communication station, on correctly receiving a response signal undertakes

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inventorying of the transponders, wherein the transponder emits the presence-signaling signal with a first signal duration and the response signal with a second signal duration, and wherein the first signal duration is shorter than the second signal duration, wherein the first signal duration and the second signal duration have a ratio of 1:X, and in that the value X lies in a range between $X=10$ and $X=100$, wherein the presence-signaling signal is not assigned to the transponder

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YONG HANG JIANG whose telephone number is (571)270-3024. The examiner can normally be reached on M-F 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian A. Zimmerman can be reached on 571-272-3059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. J./
Examiner, Art Unit 2612

/Brian A Zimmerman/
Supervisory Patent Examiner, Art Unit 2612